the reconstruction system further transmits the one or more 2D images to a receiving artificial reality system that causes the synchronized output of the audio data and display of the one or more 2D images.

20. The sending computing system of claim 13 wherein which system performs the generating of the 3D representation and/or the rendering of the one or more 2D images from the 3D representation is based on a conversation context comprising one or more of:

a number of data streams, from different ones of the one or more capture devices, in the capture data;

a determined compute capability of the sending computing system, the reconstruction system, and/or a receiving computing system;

a determined available amount of bandwidth;

determined display capabilities of a receiving computing system; or

any combination thereof.

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